

PROPERTIES

All-plastic pipe PE-RT II / EVOH / PE-RT II



Outer pipe diameter [mm]	8.0	10.0	12.0	12.0	13.6	14.0	14.0	15.0	15.6	16.0	16.0	17.0	18.0	20.0	25.0
Pipe wall thickness [mm]	1.0	1.3	1.4	2.0	1.8	1.4	2.0	1.5	1.8	1.5	2.0	2.0	2.0	2.0	2.3
Inner pipe diameter [mm]	6.0	7.4	9.2	8.0	10.0	11.2	10.0	12.0	12.0	13.0	12.0	13.0	14.0	16.0	20.4
Smallest bending radius [mm] without bending device: 5D	40	50	60	60	68	70	70	75	78	80	80	85	90	100	125
Smallest bending radius [mm] with bending device: 2D	16	20	24	24	27.2	28	28	30	31.2	32	32	34	36	40	50
Density [g/cm ³]	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945
Weight per meter [g/m]	22	35	46	62	66	55	75	63	77	68	87	94	100	112	163
Water content [liter/m]	0.028	0.043	0.066	0.050	0.079	0.099	0.079	0.113	0.113	0.133	0.113	0.133	0.154	0.201	0.327
Linear expansion coefficient [mm/m K]	0.195	0.195	0.195	0.195	0.195	0.195	0.195	0.195	0.195	0.195	0.195	0.195	0.195	0.195	0.195
Thermal resistance [m ² K/W]	0.0025	0.0033	0.0035	0.0050	0.0045	0.0035	0.0050	0.0038	0.0045	0.0038	0.0050	0.0050	0.0050	0.0050	0.0058
Thermal conductivity [W/m K]	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Maximum operating temperature, over 50 years [°C]	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Maximum operating temperature, max. 1 year [°C]	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Emergency operating temperature, max. 100 hrs [°C]	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Maximum operating pressure, over 50 years [bar]	6	6	6	10	6	8	8	8	6	6	8	6	6	6	6
Surface roughness [mm]	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Oxygen permeability [g/m ³ d]	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1